

Application No. 10/650,359
Amendment Dated December 22, 2004
Reply to Office Action dated August 30, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (currently amended) Electrical subsea connector ~~(18)~~ comprising:
electrical connection means; ~~(1)~~
insulating means ~~(5)~~ surrounding said electrical connection means; ~~(1)~~;
sealing means ~~(11,12)~~ for preventing surrounding liquid such as sea water from coming into contact with said electrical connection means ~~(1)~~ in order to ensure watertightness, said sealing means having a sealing compound such as a grease; and
an outer housing enclosing said electrical connection means, insulating means and sealing means, and extending along a longitudinal axis, wherein said insulating means (5) are formed of a solid and elastic molded insulation layer attached to and fixed with respect to said outer housing, said insulation layer being coaxial with said outer housing and being made of a wall disposed around said electrical connection means (1) so as to define a chamber (19) suitable for receiving at least one electrical cable end (20), said insulation layer being coaxial with said chamber, where said chamber is dimensioned so that when a cable end is fully inserted into it, said cable end replaces substantially all said sealing compound and forming a tight fit between said insulation layer and the insulation of said cable end.

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2. (cancelled without prejudice)
3. (currently amended) Electrical subsea connector ~~(18)~~ according to claim 1 wherein said sealing means ~~(11, 12)~~ ~~comprises~~ has an outer diaphragm closing said chamber ~~(19)~~.
4. (currently amended) Electrical subsea connector ~~(18)~~ according to of claim 1 wherein said wall ~~(5)~~ is made of an elastical material for tightening said cable end ~~(20)~~.
5. (currently amended) Electrical subsea connector ~~(18)~~ according to claim 4 wherein said elastical material is an elastomeric material such as silicone rubber or ethylene propylene diene monomer.
6. (currently amended) Electrical subsea connector ~~(18)~~ according to claim 1 wherein said connector ~~comprises~~ has an inner semiconducting wall ~~(4)~~ surrounded by said insulating means ~~(5)~~.
7. (currently amended) Electrical subsea connector ~~(18)~~ according to claim 1 wherein said connector ~~comprises~~ has an outer semiconducting wall ~~(6)~~ around said insulating means ~~(5)~~.

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8. (currently amended) Electrical subsea connector ~~(18)~~ according to claim 7 wherein the interface between said outer semiconducting wall ~~(6)~~ and said insulating means ~~(5)~~ has a curved profile.

9. (currently amended) Electrical subsea connector ~~(18)~~ according to claim 1 wherein said connector comprises holes ~~(8)~~ in order to press out a prefilled sealing compound ~~(12)~~ such as a grease when said cable ~~(20)~~ is pushed into said chamber ~~(19)~~.

10. (currently amended) Electrical subsea connector ~~(18)~~ according to claim 1 wherein said connector comprises wiping means ~~(10)~~.

11. (new) Electrical subsea connector according to claim 1, wherein the inner diameter of said chamber is smaller than the outer diameter of said cable end so as to ensure tightening of said cable end into said chamber.